

TO CORRESPONDENTS.

"S. B." (Barnstable).—See advertisement on first page of BUILDER, No. 127.
 "R. C."—The date of the building at Malton should be given.
 "Subscriber from No. 1."—We will find an opportunity to give him some information on ice walls.
 "J. D."—We can scarcely reply without a specimen. The proposition seems good.
 "G. R."—The letter is destroyed.
 "T. W."—We will endeavour to call.
 "J. J."—Ditto.
 "H. F."—Will our correspondent favour us with a sight of the work?
 "Concrete."—A correspondent wishes to know a cement that will withstand the acid in beer. It is to be used in the joints of a stone tank. Roman cement has failed.
 "Received."—R. S., Professor D., "Hugh J. L., "A. T. S., "W. D., "Messrs. B., "A. Traveler," "Peebles," "Elements of Physics," translated by E. West, vol. II, and L. Loggan & Co.
 "Anatomical."—In Professor Willis's account of Tort Cathedral, p. 382, 3rd column, for "ache" read "ape."

ADVERTISEMENT.

COLOURED PHOTOGRAPHIC PORTRAITS.

"We have recently inspected a number of portraits taken by Mr. BEARD, which are quite beautiful. The colour is uniform, and so transparent as not to affect the likeness in any degree."—*Builder*.
 Mr. BEARD'S establishments are 22, King William-street, City (where application for license should be made), 39, Pall-mall-street, Westminster, and the Royal Polytechnic Institution, Regent-street.

HERRING'S PATENT SAFETY WINDOW.—All danger from cleaning or repairing windows at an end. No housekeeper should be ignorant of this invaluable invention. Simple, cheap, and effective; will repay the cost every two years; add 5 to 10 per cent. to the value of houses. No one should buy or rent one without it. Now in full operation in most parts of the kingdom. Builders and the public can inspect its real merits, and have licenses, at the Patent Steam Bed-feather Factory, 14, Kingsgate-street, London.—**JOHNSON AND FASH, Makers.**

CHAS. WM. WATERLOW.

Manufacturers of Sashes and Frames, and Joiner to the Trade, 171, Bunhill-row, Finsbury-square. Well-seasoned materials, superior workmanship, lowest prices. Upwards of 100 doors and a large variety of Sashes and Frames always on sale. Glazed goods securely packed for the country.

Steam-truck buildings in any quantity.—N.B. This Establishment is worth the notice of all engaged on building.

GLASS for SKYLIGHTS and other purposes. British Sheet and Crown Glass in Squares or Crates, 10s. per cent. cheaper than any other house for cash; every quality and substance ready at a minute's notice.—**R. COGAN, 48, Lancaster-square, London.**

SASHES primed, glazed, and sent to any part of London at 3d. per foot.

BUILDERS, PAINTERS, GLAZIERS, and others, supplied with every article used in the trade upon the best wholesale terms.
FOREIGN SHEET. BRITISH SHEET. BRITISH CRUIN. PROPAGATING GLASSES. Coloured and Ornamental Glass, Plated Crown, and Sheet Plate, for Shop fronts, Show-cases, &c. The largest stock of Cheap Glass in London for HORTICULTURAL PURPOSES.

Dry and Good Colours of the best quality; Brushes, Dryers, and every article used in the Trade Warranted.
VARNISHES and GENUINE WHITE LEAD; MILLED LEAD IN SHEETS 22s. per cwt.; Lead Pipe 25s. per cwt. Paints, Water-colours, Basins, Brass-work, and all materials used by Plumbers.

For complete lists priced.—Address to **R. COGAN, WINDOW GLASS, LEAD, and COLOUR WAREHOUSE, 5, Princes-street, Leicester-square, London.**

BRITISH and FOREIGN SHEET GLASS for Horticultural purposes, &c., may be had at **JAMES BROMLEY'S, 315, Oxford-street, London**, at the following reduced prices:—
 In crates, containing about 360 feet, of course 13 oz., at 4d. per foot, or fourth quality, 3d. per foot; ditto, 16 oz. course, 5d.; ditto, fourth quality, 6d.; or cut to any size not exceeding 48 inches long by 24 inches wide at 4d. per foot extra. Also Microscopical Glass, French Shades, Plate and Crown Window Glass.—A discount to the Trade.

TO THE PLATE GLASS TRADE.

THE BIRMINGHAM PLATE AND CROWN GLASS COMPANY, "Registered," beg to inform the Trade and Public, that the extension of their Works at Edgbaston, near Birmingham, is now completed, their Warehouse, 151, Fleet-street, London, is now open for the sale of their Crystal Plate Glass, which will be found to stand unrivalled by that of any other manufactory. They are also in a position to supply Rough Plate of any substance for Skylights or Floorings on the shortest notice.—Orders addressed to **B. MORGAN, Company's Warehouse, 151, Fleet-street, London**, will be promptly attended to.

WINDOW GLASS, LEAD, VARNISH, and COLOUR MANUFACTORY.—Crown Window Glass in squares under two feet, 4d. per foot; glazing, 3d. per foot; sheet glass, 4d. per foot; best white lead, 25s. per cwt.; thirds, 22s. per cwt.; insord oil, 2s. 6d.; boiled oil, 3s. 6d.; turpentine, 3s. 9d.; fine oak varnish, 10s.; carriage, 12s.; copal, 12s.; body copal, 20s.; gold size, 10s.; per cent. 12s.; insord oil putty, 7s. 6d. per cwt. per pint; patent dryers, 12s.; black paint, 28s.; lead colour, 24s.; Oxford earth, 22s. per cwt.; best pan water-closet, 3s.; complete 4-frame cask, 2s. 6d. each; Milled sheet lead, patent pipe, beer-machines, tapping-cuts and brushes and colour of every description. Thomas, letting you be the manufacturer, can supply a much better article than most other houses. Address, **THOMAS MILLINGTON, 87, Bishopsgate-street Without, London.**—Established upwards of 90 years.

DUTY OFF ORNAMENTAL WINDOW GLASS.

CHARLES LONG begs to inform his Friends and the Public, that he can now supply Ornamental Glass from 1s. 6d. per foot superficial; and borders from 9d. per foot, run; and having just built two of the largest Kitchens in London, is enabled to execute extensive Orders with unprecedented dispatch, 1, King-street, Portman-square.—Terms, Cash only.

STAINED GLASS, Manufactured in the style of the middle ages, for church windows and Gothic edifices, by JAMES ALEX. FORREST, 19, Old-Haymarket, Liverpool. Designs given free, where the work is executed.

SHEET and CROWN GLASS for HORTICULTURAL PURPOSES, at the most moderate prices, may be obtained in any quantity, and at the shortest notice, at **CLAUDET and HOUGHTON'S** Wholesale and Retail Glass Warehouse, 69, High Holborn.

PATENT PLATE GLASS, Sheet and Crown Window Glass, Coloured and Painted Glass, wholesale and retail, at **CLAUDET and HOUGHTON'S**, Window Glass Warehouse, 69, High Holborn.—Lists of the reduced prices forwarded free on application.

TO CARPENTERS and BUILDERS.

WARD, Glazier, 125, Union-street, Borough, is enabled to Prime and Glaze new Sashes with Crown Glass at 4d. per foot; sent to any part of London at 5d. per foot.—**For CASH ONLY.**—All letters post-paid.

GLASS SHADES.—For the Preservation of CLOCKS, ALABASTER ORNAMENTS, WAX FLOWERS, or any other articles which may be spoiled by dust or fire, are since the repeal of the duty on glass sold at very reduced prices at **CLAUDET and HOUGHTON'S** Wholesale and Retail Glass Shade Warehouse, 69, High Holborn.

FOREIGN SHEET GLASS, &c.—C. JARVIS has a Large Stock of Foreign Sheet Glass in cases of all sizes, of the stoutest kind, at very reduced prices. Also **BRITISH SHEET GLASS** of various substances. Small Glass, &c., on the Lowest Terms. For Ready Money only. At his Old Established **WINDOW GLASS WAREHOUSE, 38, Great Castle-street,** a few doors from Regent-street.

COLOURED GLASS for WINDOWS.—**CLAUDET and HOUGHTON, 69, High Holborn,** beg to notify that they are now able to supply **COLOURED GLASS** at prices so greatly reduced as to make it available for many purposes from which it has hitherto been excluded on account of its expense. They have always on hand the largest variety of colours which can be obtained, of which they invite an inspection.—Lists of prices may be had upon application.

CHEAP ROMAN CEMENT is sold in Casks that will not contain five bushels, even by some manufacturers of a very respectable name. Consumers should see that the standard size cask is 29 inches long by 17½ across the head; outside measure. Any workman with a rule in his pocket can ascertain this.

ROMAN CEMENT.

J. M. BLASHFIELD, successor to Wyllie, Parker, and Co., the original Patentees, beg to leave to acquainted Architects and Builders, that they may be supplied with the genuine Roman Cement as heretofore, at Albion Wharf, Holland-street, Surrey, foot of Blackfriars' bridge; and also Atkinson's Cement, Plaster of Paris, Trass, and Portland Cement, &c.

J. M. Blashfield especially calls the attention of Builders to the size of the cement casks, which are warranted to hold five bushels.

KEENE'S PATENT MARBLE CEMENT.

WITHOUT noticing CAUTIONS, which are as absurd as they are unequalled, or disproving assertions, which carry with them their own refutation, the patentees of **KEENE'S CEMENT** venture to believe, that this material will very advantageously stand the test of comparison with any cement of a similar nature, however INVALUABLE, now before the public. They derive this opinion from its all but exclusive use in the new buildings south of Hyde-park, on therompton estate, and in many other public and private edifices, both in London and the country. Amongst others may be mentioned the works recently executed at the Colosseum, Regent's-park, where its hardness and beauty of appearance have caused it to be extensively used for skirting and other mouldings, in place of wood, for columns instead of marble, and as a substitute for stone in paving the floors of the corridors and conservatories. Patentees and manufacturers, **J. B. WHITE & SONS, Milbank-street, Westminster.**

MARTIN'S FIRE-PROOF AND ORNAMENTAL CEMENT.

CAUTION.—Messrs. **STEVENS and SON, Patentees,** beg to caution their friends and the Trade generally against confounding the invaluable Cement with others, erroneously and to be of the same description. S. and S. pledge themselves, that **MARTIN'S CEMENT** is totally dissimilar in composition and manufacture from every other, and being a neutral compound, is not only free from chemical agency upon any substance with which it may come in contact, but completely resists the action of the strongest acids. They feel it a duty to direct attention to the following properties, which it exclusively possesses:—
 1. It rapidly acquires the hardness of stone.
 2. Unlike other internal cements, its hardness is uniform throughout its entire thickness.
 3. Its surface (which may be made equal to that of the finest marble) NEVER THROWS OUT ANY SALT, and will receive paint in four days, without peeling, when put upon dry work.
 4. It is peculiarly adapted as an internal stucco for walls, skirting, architraves, mouldings, and enrichments of all kinds, to all of which purposes it has been extensively applied by Mr. Thomas Cubitt on the Grosvenor estate, &c.

For the above purposes, it possesses great advantages over wood, being more economical and durable, resisting fire, damp, and vermin.

For the floors of hall and fire-proof warehouses, its lightness, durability, and uniform surface give it an immense advantage over stone, being, at the same time, much more economical. The most satisfactory references can be given.

To be had of the Patentees, **Plaster of Paris and Cement Manufacturers, 140, DRURY LANE.**
 Agents for Liverpool and Manchester, **Mr. B. PART, 28, Canning-place, Liverpool.**

PORTLAND CEMENT does not vegetate

In damp situations, requires no colouring, is perfectly hydraulic, and resists the action of frost. The price is now considerably reduced, and the public are thereby enabled to avail themselves of these distinct advantages.

Manufactured by **J. B. WHITE and SONS, of Milbank-street, Westminster;** and sold at their warehouses—**Earl-street, Blackfriars;** **Druse's Wharf, Chelsea;** **Bell's Wharf, Paddington;** and **Albion Wharf, Deptford-bridge;** at **Seel-vicent, Liverpool;** and **Salmon and Co.'s, Dublin.**

ATKINSON'S CEMENT.

Rotherhithe Cement Works, Church-street, Rotherhithe.

WILLIAM WOOD, Jun., Manufacturer of Bath, Portland, and Roman Cements, Blue and White Lias Lime, &c. &c., beg to inform Architects, Builders, and others, that he is appointed AGENT for the sale of **ATKINSON'S CEMENT,** and has just received a shipment direct from the Works, which is now ready for sale, in any quantity, at the price of 2s. 2d. per bushel.—**WILLIAM WOOD, Jun.,** also begs to call the attention of the public to his Bath Cement, which he thinks will merit appreciation. It is of a very light colour, and will take up more sand than any cement now in use; requires no paint, and is well adapted for ornamental castings of every description, however elaborate: 2s. per bushel; delivered free within three miles of the works.

PATENT METALLIC SAND CEMENT.

requiring no colour or paint, and free from cracks and blisters, mixed ready for use at 1s. per cwt. 2s. 6d. allowed for each cask returned in good order. 34 bushels common sand to be added to each cask of Metallic Cement, which will coat 14 square yards of stucco.—Apply at the Metallic Cement Wharf, King's-road, Camden New Town.

THE PROJECTED RAILWAYS.

BENSON, LOGAN, and CO.'S PATENT

METALLIC SAND CEMENT.—Its merits, as stated in letter to the Proprietors, by James Thomas Knowles, Esq., Architect, Raymond's Buildings, Gray's Inn, are:—

1st.—The great tenacity with which it adheres to brick, stone, and iron.

2ndly.—Its freedom (when properly applied, from those cracks and fissures, by which the cements generally used for external stuccoing are so frequently disfigured.

3dly.—The total absence of the unsightly tint produced by vegetation.

4thly.—The increased hardness which it acquires from exposure to atmospheric influences.

5thly.—The great beauty, accuracy, and durability of the mouldings, capitals of columns, crockets, balustrades, and other architectural enrichments and decorations formed of it, the smallest and most delicate members of which, as well as the sharpest angles, have withstood unimpaired the severities of our climate during many winters, and now present the same perfect and highly finished appearance as would be produced by stone carvings carefully executed.

6thly.—The excellent and agreeable tone of colour which it assumes naturally, and retains without the aid of any colouring or painting.

And lastly, its extreme hardness and almost entire incomparability when used as a mortar in the construction of inverted or relieving arches, foundations under important superstructures, and small bearing piers, which have to sustain great weights. For all these purposes it has been extensively used under my directions, and in some cases has been exposed to very severe trials. The results have, however, without one exception, been most satisfactory; and I do not believe that there are any known substances so well adapted for the execution of works, in which the greatest strength and durability are essential.

Price of Metallic Sand at Swansea (place of manufacture), 10s. per ton, or supplied in London at 70s. per ton of twenty-one bushels.

Further information will be given, and specimens shown, on application to **Mr. C. K. DYER, 9, New Broad-street,** and at the Metallic Cement Wharf, King's-road (opposite Fruit-street), Camden New Town, London.

TO ARCHITECTS, ENGINEERS, CONTRACTORS, BUILDERS, MASONS, and PLASTERERS, MERCHANTS, SHIPPERS, and the PUBLIC IN GENERAL.

JOHNS and CO.'S PATENT STUCCO

CEMENT.—The following are the positive advantages possessed by this invention over every Cement hitherto introduced.—It will effectually resist damp. It will never vegetate nor turn green, nor otherwise discolour. It will never crack, blister, or peel off. It will form a complete Stone casing to any Building covered with it. It so closely resembles stone that it is impossible to detect it. It never requires either to be painted or coloured. It will keep fresh and good in the crannies in any climate for any number of years. It is the only Cement that can be depended upon for export. It is the only Cement that can be used with confidence by the Sea-side. It may be used in the hottest or coldest climates at any season. It will adhere to any substance, even to Wood, Iron, or Glass. It will carry a larger Proportion of Sand than any other Cement. It matures by age, and becomes perfect when other Cements begin to perish. It may be worked through the Winter, as frost has no effect upon it. It may be used on the Inner Walls of new Houses, which may be papered over or painted directly. Roofs laid or pointed with this Cement will remain undamaged by the severest Storms. Any Plasterer may apply it, the instructions for use being very clear and distinct. The first cost of this material does not exceed that of the cheapest Cement now in use; but with all the above-named extraordinary and valuable advantages, nothing can approach it in point of economy.

Architects and Builders who have used this Cement have declared that it requires only to be known, to be universally preferred.

Specimens may be seen, and a Prospectus fully describing the Cement and its mode of application, together with a volume of Testimonials from every part of the Kingdom, may be obtained on application at the office of "The Builder," and of **MANN and CO., SOLE AGENTS for the Patentees, 4, Maiden-lane, Queen-street, Cheapside, London:** of whom also may be had.

JOHNS and CO.'S PATENT STONE-COLOUR STUCCO PAINT, expressly intended for Paving over exterior Walls of Houses that have been covered with Roman or other Cements, and which have become dirty and discoloured. It is in every way better suited for this purpose than White Lead Paint, which will frequently come off in flakes, being in direct chemical opposition with Cements; whereas **JOHNS and CO.'S PATENT PAINT** having an affinity for Stucco, binds itself with it, stopping the action, thereby rendering the wall proof against weather, and in the final producing a pure stone-like effect, producible by no other Paint whatever. It is cheap in its application, and may be used by any Painter, in any climate, even in the most exposed Marine situations.